

Date: Sat, 23 Oct 93 00:37:13 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #1258  
To: Info-Hams

Info-Hams Digest Sat, 23 Oct 93 Volume 93 : Issue 1258

## Today's Topics:

"Vanity" Call Signs (3 msgs)  
opinions on sb200  
Pacificon  
PCS 3000 question  
Politically correct pronouns.  
Radio Schlock SWR/Power Meter  
Santec ST-7/T Help ?  
SAREX Rise-set Times

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available (by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: 23 Oct 93 03:08:12 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: "Vanity" Call Signs  
To: info-hams@ucsd.edu

> After a couple of months, the price of a vanity call may drop to  
> \$5,000. Get the point? Sure, it is "unfair" to charge so much, only  
> "the rich" will get to buy a cool callsign, but the feds will make some  
> dough off of them and that's not so bad.  
>  
> Well, with tongue firmly planted in cheek, I wish you all 73!!!  
>  
> wb8zjl =paul= uhhh, wb8zjl, I bet they couldn't GIVE that call away.  
>  
> :-) ;-)

They already DID give it away...to you.

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Date: Fri, 22 Oct 1993 14:52:19 GMT  
From: news.kpc.com!amd!netcomsv!netcom.com!stevew@decwrl.dec.com  
Subject: "Vanity" Call Signs  
To: info-hams@ucsd.edu

In article <1993Oct21.202231.25728@VFL.Paramax.COM>, rossi@VFL.Paramax.COM (Pete Rossi) writes:  
> stuff deleted..  
> It just brings up the question of how do you impose a yearly fee on  
> a license with a 10 year term? What happens if the person does not  
> "renew" his "vanity call"? One solution might be when someone gets one  
> of these "vanity calls" he would also keep his present call and could  
> use either one. If he doesn't renew the "vanity call" then he would  
> loose it and it would be re-assigned after a suitable delay.  
>  
> Pete Rossi - WA3NNA rossi@vfl.paramax.COM

One idea just occurred to me. It's a 10 year license, so simply charge the entire amount up front. Step right up folks...pluck down your \$70 and get 1x2!

Steve KA6S (Or was that 2x1? ;-)

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Date: 22 Oct 1993 14:36:16 GMT  
From: noc.near.net!jericho.mc.com!fugu!levine@uunet.uu.net  
Subject: "Vanity" Call Signs  
To: info-hams@ucsd.edu

In article g29@clarknet.clark.net, andy@clark.net (Andrew M. Cohn) writes:  
>  
>: VANITY CALLSIGNS AUTHORIZED  
>  
>: Both the House and Senate have approved legislation authorizing the FCC to  
>: issue unique amateur radio callsigns, at a cost of \$7 per year, to the ham  
>: community. The surprise measure was inserted into the recently signed  
>: deficit reduction bill of President Clinton.  
>  
>While I think this is a neat idea, I am puzzled about what configuration  
>a vanity call would take. Unlike vanity tags, call letters currently  
>indicate country and call area, although the latter is somewhat useless  
>given our mobility these days. Anyone have ideas about what a "vanity

>call" might look like? Perhaps something like "IH8DX"?? {:->  
>  
>K4ADL  
>andy@clark.net  
>

Clearly you can't have an I..... callsign. (bang) McFly.....

The proposal would re-issue expired US callsigns on a first-come first-served basis. You would pick a few in order of preference and you would get the first on on your list available.

Bob KD1GG

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Date: Fri, 22 Oct 1993 19:49:23 GMT  
From: munnari.oz.au!spool.mu.edu!nigel.msen.com!yale.edu!news.yale.edu!  
revco@network.ucsd.edu  
Subject: opinions on sb200  
To: info-hams@ucsd.edu

any opinions on the heathkit sb200 linear? is \$300 for  
a used one a fair price?  
thanks  
jr

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Date: 23 Oct 93 03:49:16 GMT  
From: ogicse!uwm.edu!spool.mu.edu!agate!news.ucdavis.edu!othello.ucdavis.edu!  
ez006683@network.ucsd.edu  
Subject: Pacificon  
To: info-hams@ucsd.edu

I'll be at Pacificon tomorrow and Sunday. I'll monitor 147.51 Mhz and  
call CQ Usenet once or twice. Hope to see lots of Usenets Hams this  
Weekend

73 es cu soon  
Dan

--  
-----\*-----  
\* Daniel D. Todd      Packet: KC6UUD@WA6RDH.#nocal.ca.usa      \*  
\*                      Internet: DDTODD@ucdavis.edu      \*  
\*                      Snail Mail: 1750 Hanover #102      \*  
\*                      Davis CA 95616      \*

\*-----\*  
\* I do not speak for the University of California.... \*  
\* and it sure as hell doesn't speak for me!! \*  
\*-----\*

-----  
Date: 22 Oct 1993 14:29:26 GMT  
From: olivea!news.bu.edu!transfer.stratus.com!NewsWatcher!user@ames.arpa  
Subject: PCS 3000 question  
To: info-hams@ucsd.edu

One of the Azden PCS-3000s at my CAP squadron is displaying the UL LED, indicating that the PLL won't lock. The manual says to return it for factory servicing. Does anyone have info about the fix for this?

Thanks,  
Warren

Warren Tuiskula warren\_tuiskula@vos.stratus.com  
Stratus Computer, Inc. (508) 490-6927  
Amateur - KA1JL  
CAP - Freedom 684 Mobile  
Disclaimer - I do not speak for Stratus Computer, Inc.

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Date: 22 Oct 1993 14:38:16 GMT  
From: noc.near.net!jericho.mc.com!fugu!levine@uunet.uu.net  
Subject: Politically correct pronouns.  
To: info-hams@ucsd.edu

In article GAA21591@ucsd.edu,  
William=E.=Newkirk%Pubs%GenAv.Mlb@ns14.cca.CR.rockwell.COM () writes:  
>> "...change \*his\* hobby..."? Hey you SEXIST twit, maybe you  
>>didn't know it, but females can be amateur radio operators too!  
>> Claude, allow me to suggest bowling...  
>  
>a bit over-reactive, ain't we, Tim?  
>  
>it's still accepted practice to use the masculine pronoun for references to  
>all. much better than the s/h/it scheme some have proposed. that's right up  
>there with the folks that think words like "history" are from "his story" and  
>therefore attempt to talk about "herstory" and such nonsense.  
>  
>BTW -- in Bowling there are 2 separate sanctioning organizations divided along  
>sex lines. The American Bowling Congress is for the guys and the Women's

>International Bowling Congress is for the gals. The ABC will not sanction  
>mixed leagues - you go to WIBC for that -- but the guys have to fork the  
>sanction money over to the ABC (believe right now WIBC and ABC sanction fees  
>are about the same, but for some time the ABC fees were significantly higher).  
>  
>Of course, WIBC must be expanding - noticed that on some used Brunswick Max  
>pins the house was selling for an MDA benefit that the pin was marked  
>with both ABC and WIBC logos and permit numbers. the circa 1962 AMF pin that  
>my brother has (round logo and everything - this was an "oops" in that movie  
>"The Sandlot" where the clubhouse pin has the magic triangle logo) just has  
>an ABC permit number. We used to have some wooden rubber band duckpins from  
>the days before plastic coating (found by my dad and his crew when renovating  
>a closed bowling alley into a maintenance shop for a dairy) and wooden duckpin  
>balls...i don't know where they ended up.  
>  
>Amazingly enough, the new pins are still maple but with better plastic  
>coatings than in the 1960's (better wear, more action and produces more toxic  
>fumes when burned). Kinda expected a solid synthetic pin by now to go  
>with the particle board alleys. Still amazed that some of the  
>pinsetters/pinspotters in use at the house have name plates on them  
>that refer to "Chicago, Illinois" (before postal zones were commonly in use).  
>  
>I believe it's the ABC side of the local bowling association that gets the  
>job of certifying high scores...the WIBC gals have their thing they do in the  
>administration of the game but it's been awhile since I was bowling regularly  
>(just started again last summer) so i'm a little out of touch with the local  
>structures. I also understand there is a lot more commonality now than there  
>used to be -- driven by economic need.  
>  
>bill "can't afford resin balls" wb9ivr  
>

You really get carried away on this point eh?

You must be a riot on the local 2m repeater!

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Date: Fri, 22 Oct 93 06:00:19 EDT  
From: sdd.hp.com!spool.mu.edu!sol.ctr.columbia.edu!caen!malgudi.oar.net!  
wariat.org!mystis!dan@network.ucsd.edu  
Subject: Radio Schlock SWR/Power Meter  
To: info-hams@ucsd.edu

galen@picea.CFNR.ColoState.EDU (Galen Watts) writes:

> Are you using the chart on the back that corrects the meter for different

> power levels?  
>  
> Any meter has only the accuracy you pay for. I have one of the RS meters,  
> and any reading I make with it includes a grain of salt ;-). The highest  
> power reading (45 watt radio) is the one I give the most attention to.  
>  
> I regularly run the meter into a dummy load, because I know the load's SWR  
> is 1.15:1. If I use the chart on the back, it reads right on at different  
> powers.  
>  
> It's cheap, I know it, and I like it.  
> Galen, KF0YJ  
>

Correct me if i am wrong, but there is a minimum power required to run  
the meter. I always try and drive the meter with at least 5 watts. And I  
too would give more credence to the High power reading.

73,

Dan Pickersgill N8PKV |<=====| "An Elephant: A Mouse, built to  
N8PKV@mystis.wariat.org |From All| government specifications."  
dan@mystis.wariat.org | of Us | -L. Long  
dan@amcomp.wariat.org |<=====|

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Date: 22 Oct 1993 13:48:31 GMT  
From: bloom-beacon.mit.edu!senator-bedfellow.mit.edu!w1gsl@uunet.uu.net  
Subject: Santec ST-7/T Help ?  
To: info-hams@ucsd.edu

Posted for a friend without Net access. Replies to this account will  
be passed on.

#### Santec ST-7/T Help

I'm trying to resurrect a flea market bargain. Can anyone  
provide me with a schematic, operating or service manual  
for this 440 MHz HT? I'd be glad to pay copying / mailing  
costs.

Thanks  
W1BG  
Penn Clower

\*\*\*\*\*  
Steve Finberg W1GSL w1gsl@athena.mit.edu  
PO Box 82 MIT Br Cambridge MA 02139 617 258 3754  
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Date: 23 Oct 93 00:10:06 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: SAREX Rise-set Times  
To: info-hams@ucsd.edu

SB SAREX @ AMSAT \$STS-58.013  
STS-58 Eastern R/S Times 10/23-25

Below are the rise and set times for STS-58 for selected US cities over the next three days. This data was generated to help hams without orbit programs to participate in the SAREX activities. Please note that the times shown are UTC and NOT LOCAL TIME. This listing includes only those passes with an elevation greater than 5 degrees. For information regarding SAREX frequencies and operations procedures, check your local PBBS, or bulletins from W1AW, W5RRR, W6VIO or WA3NAN.

Symbol key: rise = time that shuttle appears above horizon  
tca = time of closest approach to observer  
set = time that shuttle disappears below horizon  
el = maximum elevation above horizon  
geo = geometry: A = Ascending orbit, moving south to north  
D = Descending orbit, moving north to south  
E = passes east of observer  
W = passes west of observer

New York City  
STS-58 Element Set JSC-10

date	rise	tca	set	el	geo	orbit
23Oct93	12:02:23	12:05:52	12:08	9	A-E	79
23Oct93	13:35:49	13:40:09	13:43	32	A-E	80
23Oct93	15:10:18	15:14:46	15:18	58	D-W	81
23Oct93	16:45:00	16:49:21	16:53	30	D-W	82
23Oct93	18:20:13	18:23:37	18:26	7	D-W	83
24Oct93	12:03:48	12:07:44	12:11	14	A-E	95
24Oct93	13:37:45	13:42:10	13:46	45	A-E	96

24Oct93	15:12:21	15:16:48	15:20	52	D-W	97
24Oct93	16:47:07	16:51:18	16:54	20	D-W	98
25Oct93	10:32:21	10:35:09	10:37	4	A-E	110
25Oct93	12:05:07	12:09:18	12:12	22	A-E	111
25Oct93	13:39:20	13:43:50	13:47	55	D-E	112
25Oct93	15:13:59	15:18:28	15:22	41	D-W	113
25Oct93	16:48:55	16:52:51	16:56	13	D-W	114

Washington D.C.

STS-58 Element Set JSC-10

date	rise	tca	set	el	geo	orbit
23Oct93	12:01:33	12:05:07	12:08	9	A-E	79
23Oct93	13:35:05	13:39:28	13:43	42	A-E	80
23Oct93	15:09:42	15:14:11	15:18	86	D-W	81
23Oct93	16:44:27	16:48:55	16:52	53	D-W	82
23Oct93	18:19:27	18:23:20	18:26	12	D-W	83
24Oct93	12:03:00	12:07:00	12:10	16	A-E	95
24Oct93	13:37:03	13:41:30	13:45	65	A-E	96
24Oct93	15:11:47	15:16:16	15:20	89	D-W	97
24Oct93	16:46:33	16:50:55	16:54	33	D-W	98
24Oct93	18:21:55	18:25:12	18:27	7	D-W	99
25Oct93	12:04:20	12:08:35	12:12	27	A-E	111
25Oct93	13:38:44	13:43:12	13:47	85	A-E	112
25Oct93	15:13:26	15:17:59	15:22	75	D-W	113
25Oct93	16:48:16	16:52:31	16:56	21	D-W	114
25Oct93	18:24:35	18:26:39	18:28	2	D-W	115

Atlanta, GA

STS-58 Element Set JSC-10

date	rise	tca	set	el	geo	orbit
23Oct93	11:59:15	12:03:00	12:06	12	A-E	79
23Oct93	13:33:06	13:37:29	13:41	83	A-W	80
23Oct93	15:08:10	15:12:27	15:16	24	A-W	81
23Oct93	16:43:17	16:47:37	16:51	27	D-E	82
23Oct93	18:18:03	18:22:32	18:26	68	D-W	83
23Oct93	19:53:27	19:56:56	19:59	8	D-W	84
24Oct93	12:00:49	12:04:55	12:08	23	A-E	95

24Oct93	13:35:14	13:39:35	13:43	45	A-W	96
24Oct93	15:10:25	15:14:40	15:18	22	D-W	97
24Oct93	16:45:23	16:49:48	16:53	37	D-E	98
24Oct93	18:20:11	18:24:32	18:28	31	D-W	99
25Oct93	10:29:11	10:32:14	10:34	5	A-E	110
25Oct93	12:02:11	12:06:33	12:10	47	A-E	111
25Oct93	13:37:03	13:41:23	13:45	30	A-W	112
25Oct93	15:12:12	15:16:32	15:20	23	D-E	113
25Oct93	16:47:02	16:51:34	16:55	62	D-E	114
25Oct93	18:22:02	18:26:08	18:29	16	D-W	115

Miami, FL

STS-58 Element Set JSC-10

date	rise	tca	set	el	geo	orbit
23Oct93	10:25:25	10:28:15	10:30	5	A-E	78
23Oct93	11:58:19	12:02:39	12:06	83	A-E	79
23Oct93	13:33:52	13:37:39	13:40	11	A-W	80
23Oct93	16:45:38	16:48:59	16:51	7	D-E	82
23Oct93	18:19:56	18:24:17	18:28	28	D-E	83
23Oct93	19:54:50	19:58:56	20:02	17	D-W	84
24Oct93	10:26:21	10:30:10	10:33	13	A-E	94
24Oct93	12:00:27	12:04:44	12:08	36	A-W	95
24Oct93	13:36:33	13:39:58	13:42	8	A-W	96
24Oct93	16:47:36	16:51:19	16:54	10	D-E	98
24Oct93	18:21:55	18:26:24	18:30	67	D-E	99
24Oct93	19:57:30	20:00:52	20:03	7	D-W	100
25Oct93	10:27:26	10:31:45	10:35	29	A-E	110
25Oct93	12:02:25	12:06:32	12:10	19	A-W	111
25Oct93	13:38:52	13:41:58	13:44	5	A-W	112
25Oct93	15:14:39	15:17:43	15:20	5	D-E	113
25Oct93	16:49:04	16:53:12	16:56	16	D-E	114
25Oct93	18:23:36	18:28:04	18:32	42	D-W	115

Compiled by Dan Schultz, N8FGV

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group

Send comments to n8fgv@amsat.org

/EX

SB SAREX @ AMSAT \$STS-58.014

STS-58 Central R/S Times 10/23-25

Below are the rise and set times for STS-58 for selected US cities

over the next three days. This data was generated to help hams without orbit programs to participate in the SAREX activities. Please note that the times shown are UTC and NOT LOCAL TIME. This listing includes only those passes with an elevation greater than 5 degrees. For information regarding SAREX frequencies and operations procedures, check your local PBBS, or bulletins from W1AW, W5RRR, W6VIO or WA3NAN.

Symbol key: rise = time that shuttle appears above horizon  
tca = time of closest approach to observer  
set = time that shuttle disappears below horizon  
el = maximum elevation above horizon  
geo = geometry: A = Ascending orbit, moving south to north  
D = Descending orbit, moving north to south  
E = passes east of observer  
W = passes west of observer

#### Chicago, IL

##### STS-58 Element Set JSC-10

date	rise	tca	set	el	geo	orbit
23Oct93	13:33:50	13:37:42	13:41	13	A-E	80
23Oct93	15:07:43	15:12:05	15:15	36	A-E	81
23Oct93	16:42:15	16:46:39	16:50	38	D-W	82
23Oct93	18:17:02	18:21:04	18:24	15	D-W	83
24Oct93	13:35:29	13:39:37	13:43	20	A-E	96
24Oct93	15:09:41	15:14:05	15:18	42	D-E	97
24Oct93	16:44:18	16:48:38	16:52	30	D-W	98
24Oct93	18:19:18	18:22:57	18:26	9	D-W	99
25Oct93	12:03:26	12:06:57	12:09	8	A-E	111
25Oct93	13:36:55	13:41:12	13:44	28	A-E	112
25Oct93	15:11:16	15:15:45	15:19	43	D-W	113
25Oct93	16:45:57	16:50:14	16:54	22	D-W	114
25Oct93	18:21:24	18:24:25	18:26	5	D-W	115

#### Huntsville, AL

##### STS-58 Element Set JSC-10

date	rise	tca	set	el	geo	orbit
23Oct93	11:59:21	12:02:45	12:05	8	A-E	79
23Oct93	13:32:47	13:37:08	13:40	62	A-E	80
23Oct93	15:07:38	15:12:00	15:15	32	A-W	81
23Oct93	16:42:43	16:47:06	16:50	32	D-E	82
23Oct93	18:17:30	18:21:59	18:25	64	D-W	83

23Oct93	19:52:51	19:56:23	19:59	8	D-W	84
24Oct93	12:00:39	12:04:39	12:08	16	A-E	95
24Oct93	13:34:49	13:39:12	13:43	69	A-W	96
24Oct93	15:09:51	15:14:11	15:18	28	D-W	97
24Oct93	16:44:49	16:49:15	16:53	42	D-E	98
24Oct93	18:19:38	18:23:59	18:27	31	D-W	99
25Oct93	12:01:57	12:06:14	12:10	30	A-E	111
25Oct93	13:36:33	13:40:58	13:44	42	A-W	112
25Oct93	15:11:38	15:16:01	15:19	28	D-E	113
25Oct93	16:46:29	16:51:01	16:55	68	D-E	114
25Oct93	18:21:28	18:25:35	18:29	16	D-W	115

Houston, TX

STS-58 Element Set JSC-10

date	rise	tca	set	el	geo	orbit
23Oct93	11:57:09	12:00:25	12:03	7	A-E	79
23Oct93	13:30:28	13:34:49	13:38	87	A-E	80
23Oct93	15:05:45	15:09:49	15:13	16	A-W	81
23Oct93	16:41:27	16:45:14	16:48	11	D-E	82
23Oct93	18:16:22	18:20:35	18:24	20	D-E	83
23Oct93	19:51:01	19:55:27	19:59	46	D-W	84
24Oct93	11:58:21	12:02:19	12:05	16	A-E	95
24Oct93	13:32:36	13:36:55	13:40	40	A-W	96
24Oct93	15:08:12	15:12:06	15:15	12	A-W	97
24Oct93	16:43:41	16:47:33	16:50	12	D-E	98
24Oct93	18:18:22	18:22:46	18:26	34	D-E	99
24Oct93	19:53:15	19:57:26	20:01	20	D-W	100
25Oct93	11:59:37	12:03:55	12:07	34	A-E	111
25Oct93	13:34:29	13:38:43	13:42	23	A-W	112
25Oct93	15:10:15	15:14:02	15:17	11	D-W	113
25Oct93	16:45:23	16:49:28	16:53	15	D-E	114
25Oct93	18:19:59	18:24:32	18:28	72	D-E	115
25Oct93	19:55:22	19:59:00	20:02	9	D-W	116

Denver, CO (Seattle has been moved to the west coast bulletin)  
STS-58 Element Set JSC-10

date	rise	tca	set	el	geo	orbit
23Oct93	13:31:30	13:34:24	13:36	5	A-E	80

23Oct93	15:04:21	15:08:36	15:12	26	A-E	81
23Oct93	16:38:44	16:43:12	16:47	73	D-E	82
23Oct93	18:13:27	18:17:55	18:21	55	D-W	83
23Oct93	19:48:20	19:52:23	19:55	16	D-W	84
24Oct93	13:32:37	13:36:15	13:39	10	A-E	96
24Oct93	15:06:13	15:10:36	15:14	41	A-E	97
24Oct93	16:40:48	16:45:16	16:49	78	D-W	98
24Oct93	18:15:32	18:19:56	18:23	38	D-W	99
24Oct93	19:50:40	19:54:16	19:57	9	D-W	100
25Oct93	13:33:45	13:37:46	13:41	17	A-E	112
25Oct93	15:07:50	15:12:16	15:16	58	A-E	113
25Oct93	16:42:27	16:46:59	16:51	71	D-W	114
25Oct93	18:17:13	18:21:33	18:25	25	D-W	115

Compiled by Dan Schultz, N8FGV

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group

Send comments to n8fgv@amsat.org

/EX

SB SAREX @ AMSAT \$STS-58.015  
STS-58 Western R/S Times 10/22-25

Below are the rise and set times for STS-58 for selected US cities over the next three days. This data was generated to help hams without orbit programs to participate in the SAREX activities. Please note that the times shown are UTC and NOT LOCAL TIME. This listing includes only those passes with an elevation greater than 5 degrees. For information regarding SAREX frequencies and operations procedures, check your local PBBS, or bulletins from W1AW, W5RRR, W6VIO or WA3NAN.

Symbol key: rise = time that shuttle appears above horizon  
tca = time of closest approach to observer  
set = time that shuttle disappears below horizon  
el = maximum elevation above horizon  
geo = geometry: A = Ascending orbit, moving south to north  
D = Descending orbit, moving north to south  
E = passes east of observer  
W = passes west of observer

Seattle, WA (Denver has been moved to the central US bulletin)  
STS-58 Element Set JSC-10

date	rise	tca	set	el	geo	orbit
23Oct93	16:36:56	16:40:22	16:43	8	A-E	82
23Oct93	18:10:34	18:14:27	18:17	13	D-E	83

23Oct93	19:45:00	19:48:34	19:51	9	D-W	84
24Oct93	16:38:31	16:42:12	16:45	10	A-E	98
24Oct93	18:12:28	18:16:20	18:19	12	D-W	99
24Oct93	19:47:10	19:50:23	19:53	6	D-W	100
25Oct93	15:06:34	15:09:40	15:12	5	A-E	113
25Oct93	16:39:48	16:43:41	16:47	12	A-E	114
25Oct93	18:14:01	18:17:50	18:21	11	D-W	115

#### Albuquerque, NM

##### STS-58 Element Set JSC-10

date	rise	tca	set	el	geo	orbit
23Oct93	13:29:48	13:33:25	13:36	10	A-E	80
23Oct93	15:03:25	15:07:51	15:11	74	A-E	81
23Oct93	16:38:22	16:42:45	16:46	33	A-W	82
23Oct93	18:13:22	18:17:48	18:21	38	D-E	83
23Oct93	19:48:10	19:52:36	19:56	44	D-W	84
23Oct93	21:23:49	21:26:55	21:29	6	D-W	85
24Oct93	13:31:14	13:35:20	13:38	19	A-E	96
24Oct93	15:05:33	15:09:56	15:13	62	A-W	97
24Oct93	16:40:34	16:44:55	16:48	30	D-W	98
24Oct93	18:15:28	18:19:56	18:23	55	D-E	99
24Oct93	19:50:20	19:54:35	19:58	22	D-W	100
25Oct93	13:32:36	13:36:56	13:40	37	A-E	112
25Oct93	15:07:18	15:11:42	15:15	41	A-W	113
25Oct93	16:42:19	16:46:45	16:50	31	D-E	114
25Oct93	18:17:08	18:21:41	18:25	86	D-W	115
25Oct93	19:52:16	19:56:09	19:59	12	D-W	116

#### Los Angeles, CA

##### STS-58 Element Set JSC-10

date	rise	tca	set	el	geo	orbit
23Oct93	15:01:14	15:05:27	15:09	31	A-E	81
23Oct93	16:35:48	16:40:12	16:44	38	A-W	82
23Oct93	18:11:00	18:15:18	18:19	24	D-E	83
23Oct93	19:45:52	19:50:21	19:54	54	D-E	84
23Oct93	21:20:47	21:24:58	21:28	20	D-W	85
24Oct93	13:29:39	13:33:05	13:36	8	A-E	96

24Oct93	15:03:07	15:07:28	15:11	67	A-E	97
24Oct93	16:38:02	16:42:22	16:46	28	A-W	98
24Oct93	18:13:10	18:17:30	18:21	27	D-E	99
24Oct93	19:47:57	19:52:26	19:56	81	D-W	100
24Oct93	21:23:11	21:26:53	21:30	10	D-W	101
25Oct93	13:30:32	13:34:37	13:38	16	A-E	112
25Oct93	15:04:45	15:09:11	15:13	63	A-W	113
25Oct93	16:39:55	16:44:12	16:47	25	D-W	114
25Oct93	18:14:51	18:19:19	18:23	35	D-E	115
25Oct93	19:49:38	19:54:06	19:58	39	D-W	116

Honolulu, HI

STS-58 Element Set JSC-10

date	rise	tca	set	el	geo	orbit
23Oct93	00:21:11	00:25:26	00:29	22	D-E	71
23Oct93	01:56:02	02:00:05	02:03	16	D-W	72
23Oct93	16:26:09	16:30:28	16:34	65	A-E	82
23Oct93	18:01:49	18:05:25	18:08	9	A-W	83
23Oct93	22:49:46	22:53:03	22:55	6	D-E	86
24Oct93	00:23:05	00:27:32	00:31	57	D-E	87
24Oct93	01:58:48	02:02:02	02:04	6	D-W	88
24Oct93	14:54:29	14:58:00	15:01	9	A-E	97
24Oct93	16:28:14	16:32:31	16:36	38	A-W	98
24Oct93	18:04:46	18:07:43	18:10	5	A-W	99
24Oct93	22:51:27	22:55:19	22:58	12	D-E	102
25Oct93	00:24:45	00:29:13	00:33	43	D-W	103
25Oct93	14:55:21	14:59:35	15:03	22	A-E	113
25Oct93	16:30:14	16:34:18	16:37	17	A-W	114
25Oct93	22:52:49	22:57:08	23:00	23	D-E	118

Compiled by Dan Schultz, N8FGV

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group

Send comments to n8fgv@amsat.org

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SB SAREX @ AMSAT \$STS-58.016  
STS-58 World R/S Times 10/23-25

Below are the rise and set times for STS-58 for selected worldwide cities over the next three days. This data was generated to help hams without orbit programs to participate in the SAREX activities. Please note that

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W = passes west of observer

#### London, England

##### STS-58 Element Set JSC-10

date	rise	tca	set	el	geo	orbit
23Oct93	10:42:18	10:45:23	10:47	6	D-W	78
24Oct93	09:10:17	09:13:17	09:15	5	A-E	93
24Oct93	10:44:14	10:47:09	10:49	5	D-W	94
25Oct93	09:11:32	09:14:42	09:17	6	D-E	109

#### Paris, France

##### STS-58 Element Set JSC-10

date	rise	tca	set	el	geo	orbit
23Oct93	09:08:45	09:11:53	09:14	6	A-E	77
23Oct93	10:42:31	10:45:49	10:48	7	D-W	78
24Oct93	09:10:23	09:13:41	09:16	7	D-E	93
24Oct93	10:44:30	10:47:36	10:50	6	D-W	94
25Oct93	09:11:42	09:15:07	09:18	7	D-W	109

#### Tokyo, Japan

##### STS-58 Element Set JSC-10

date	rise	tca	set	el	geo	orbit
23Oct93	00:06:09	00:10:35	00:14	46	A-W	71
23Oct93	01:41:11	01:45:36	01:49	36	D-E	72

23Oct93	03:15:59	03:20:28	03:24	70	D-W	73
23Oct93	04:51:11	04:54:54	04:58	10	D-W	74
23Oct93	21:00:24	21:04:02	21:07	10	A-E	85
23Oct93	22:34:05	22:38:27	22:42	70	A-E	86
24Oct93	00:08:20	00:12:44	00:16	36	A-W	87
24Oct93	01:43:18	01:47:45	01:51	46	D-E	88
24Oct93	03:18:06	03:22:29	03:26	35	D-W	89
24Oct93	21:01:50	21:05:56	21:09	19	A-E	101
24Oct93	22:36:09	22:40:32	22:44	67	A-W	102
25Oct93	00:10:06	00:14:32	00:18	34	D-W	103
25Oct93	01:44:58	01:49:31	01:53	68	D-E	104
25Oct93	03:19:53	03:24:06	03:27	19	D-W	105
25Oct93	21:03:13	21:07:32	21:11	36	A-E	117
25Oct93	22:37:52	22:42:17	22:46	45	A-W	118

Sydney, Australia

STS-58 Element Set JSC-10

date	rise	tca	set	el	geo	orbit
23Oct93	08:14:00	08:17:33	08:20	9	D-E	76
23Oct93	09:47:34	09:51:59	09:55	79	D-E	77
23Oct93	11:22:37	11:26:54	11:30	26	D-W	78
23Oct93	12:57:45	13:02:03	13:05	27	A-E	79
23Oct93	14:32:33	14:36:58	14:40	77	A-W	80
23Oct93	16:07:50	16:11:24	16:14	9	A-W	81
24Oct93	08:15:23	08:19:27	08:23	19	D-E	92
24Oct93	09:49:39	09:54:04	09:57	54	D-W	93
24Oct93	11:24:52	11:29:07	11:32	23	A-W	94
24Oct93	12:59:52	13:04:14	13:08	35	A-E	95
24Oct93	14:34:40	14:38:59	14:42	35	A-W	96
25Oct93	08:16:40	08:21:04	08:24	37	D-E	108
25Oct93	09:51:26	09:55:51	09:59	34	D-W	109
25Oct93	11:26:39	11:30:58	11:34	23	A-E	110
25Oct93	13:01:31	13:06:00	13:10	56	A-E	111
25Oct93	14:36:29	14:40:36	14:44	18	A-W	112

Compiled by Dan Schultz, N8FGV

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group

Send comments to n8fgv@amsat.org

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End of Info-Hams Digest V93 #1258

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